## Amendments to the Claims

This Listing of Claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) An inert anode assembly comprising:
- an inert anode having a cavity;
- an electrically conductive rod at least partially disposed in the cavity defining a gap between the inert anode and the conductive rod; and

particulate conductor material at least partially filling the gap, wherein the particulate conductor material comprises at least one metal selected from Cu, Ag and Ni.

- 2. (Cancelled)
- 3. (Original) The inert anode assembly of claim 1, wherein the particulate conductor material has an average particle size of from about 0.05 to about 5 mm.
- (Original) The inert anode assembly of claim 1, wherein the particulate conductor material has a monomodal particle size distribution.
- (Original) The inert anode assembly of claim 1, wherein the particulate conductor material comprises multiple particle size distributions.
- 6. (Original) The inert anode assembly of claim 1, wherein the particulate conductor material has a bimodal size distribution.
- (Original) The inert anode assembly of claim 1, wherein the particulate conductor material has a trimodal size distribution.
- 8. (Original) The inert anode assembly of claim 1, wherein the particulate conductor material has a density of less than 95 percent of a theoretical density of the conductor material.

- (Original) The inert anode assembly of claim 1, wherein the particulate conductor material has a density of from about 60 to about 90 percent of a theoretical density of the conductor material.
- 10. (Currently Amended) The inert anode assembly of claim 1, wherein the particulate eenneeter conductor material is at least partially sintered.
- 11. (Original) The inert anode assembly of claim 1, wherein the gap is from about 0.1 to  $15~\mathrm{cm}$ .
- 12. (Original) The inert anode assembly of claim 1, wherein the gap is from about 0.5 to about 5 times a diameter of the conductive rod.
- 13. (Currently Amended) The inert anode assembly of claim 1, further comprising at least one conductive coating between the inert anode and the particulate eenneeter conductor material and/or between the conductive rod and the particulate eenneeter conductor material.
- 14. (Original) The inert anode assembly of claim 13, wherein the at least one conductive coating comprises at least one metal selected from Cu, Ag, Sn and Ni.
- 15. (Original) The inert anode assembly of claim 13, wherein the at least one conductive coating has a thickness of from about 0.01 to about 1 mm.
- 16. (Original) The inert anode assembly of claim 1, wherein the inert anode comprises a ceramic.
- 17. (Original) The inert anode assembly of claim 1, wherein the inert anode is substantially cylindrical and cup shaped.
- 18. (Original) The inert anode assembly of claim 1, wherein the inert anode has an outer diameter of from about 3 to about 30 cm, and a height of from about 10 to about 40 cm.

- 19. (Original) The inert anode assembly of claim 1, wherein the conductive rod comprises at least one metal selected from Ni, Cu and Fe.
- 20. (Original) The inert anode assembly of claim 1, wherein the conductive rod has an outer diameter of from about 10 to about 100 mm.
- 21. (Currently Amended) The inert anode assembly of claim 1, further comprising a seal between the conductive rod and the inert anode above the particulate eenneeter conductor material.
- 22. (Original) The inert anode assembly of claim 21, wherein the seal comprises a castable ceramic material.
  - 23. (Currently Amended) A method of making an inert anode assembly comprising: providing an inert anode comprising a cavity;

providing an electrically conductive rod at least partially in the cavity with a gap between the inert anode and the conductive rod; and

providing a particulate connector material in the gap, wherein the particulate connector material is poured into the gap in loose particulate form.

- 24. (Cancelled)
- 25. (Original) The method of claim 24, wherein the particulate connector material has a density of from about 50 to about 95 percent of a theoretical density of the connector material.
- 26. (Original) The method of claim 23, further comprising sintering the particulate connector material.
- 27. (Original) The method of claim 26, wherein the particulate connector material is sintered during use of the inert anode assembly in an electrolytic aluminum production cell.

- 28. (Original) The method of claim 26, wherein the particulate connector material is sintered prior to use of the inert anode assembly in an electrolytic aluminum production cell.
- 29. (Original) The method of claim 26, wherein the sintering is performed at a temperature of from about 600 to about 1,200.degree, C.
- 30. (Currently Amended) The method of claim 23, wherein the particulate eonductor connector material comprises at least one metal selected from Cu, Ag and Ni.
- 31. (Currently Amended) The method of claim 23, wherein the particulate e-ond-ueter connector material has an average particle size of from about 0.05 to about 5 mm.
- 32. (Currently Amended) The method of claim 23, wherein the particulate eenductor connector material has a monomodal particle size distribution.
- 33. (Currently Amended) The method of claim 23, wherein the particulate eenduster connector material comprises multiple particle size distributions.
- 34. (Original) The method of claim 23, wherein the gap is from about 0.1 to about 15 cm.
- 35. (Original) The method of claim 23, further comprising providing a conductive coating between the inert anode and the particulate connector material and/or between the conductive rod and the particulate connector material.
- 36. (Original) The method of claim 23, wherein the inert anode comprises a ceramic and the conductive rod comprises a metal.
- 37. (Original) The method of claim 23, further comprising providing a seal between the conductive rod and the inert anode above the particulate connector material.

38. (Original) A method of producing aluminum comprising:

passing current between an inert anode assembly and a cathode through a molten salt bath comprising an electrolyte and aluminum oxide; and

recovering aluminum from the molten salt bath, wherein the inert anode assembly comprises:

an inert anode having a cavity;

an electrically conductive rod at least partially disposed in the cavity defining a gap between the inert anode and the conductive rod; and

particulate conductor material at least partially filling the gap.

- 39. (Original) The method of claim 38, wherein the particulate conductor material has a density of from about 50 to about 95 percent of a theoretical density of the conductor material.
- 40. (Currently Amended) The method of claim 38, further comprising sintering the particulate eonnector conductor material during the inert anode production process.
- 41. (New) The inert anode assembly of Claim 1, wherein said particulate conductor material comprises at least one of Fe, Al, bronze, MONEL, and INCONEL.
- 42. (New) The inert anode assembly of Claim 1, wherein said particulate conductor material has a density of less than 90 percent of a theoretical density of the conductor material.